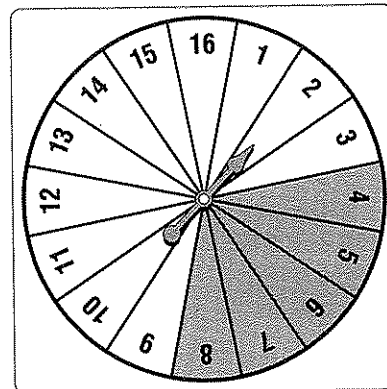


6-9**Skills Practice****Probability and Predictions**

A spinner like the one shown is used in a game. Determine the probability of each outcome if the spinner is equally likely to land on each section. Express each probability as a fraction and as a percent.



1. $P(10)$

2. $P(\text{odd})$

3. $P(\text{greater than } 7)$

4. $P(\text{prime})$

5. $P(1 \text{ or } 2)$

6. $P(\text{less than } 5)$

7. $P(\text{Shaded})$

8. $P(\text{Not shaded})$

There are 4 red marbles, 1 blue marble, 9 green marbles, and 6 yellow marble in a bag. Suppose one marble is selected at random. Find the probability of each outcome. Express each probability as a fraction and as a percent.

9. $P(\text{red})$

10. $P(\text{blue})$

11. $P(\text{yellow})$

12. $P(\text{red or blue})$

13. $P(\text{white})$

14. $P(\text{red, blue, or green})$

Suppose two 1–6 number cubes are rolled. Find the probability of each outcome. Express each probability as a fraction and as a percent. (*Hint: Make a table to show the sample space as in Example 2.*) Round to the nearest tenth, if necessary.

15. $P(3 \text{ or } 5)$

16. $P(\text{both even})$

17. $P(\text{odd product})$

18. $P(\text{sum more than } 10)$

19. $P(\text{both the same})$

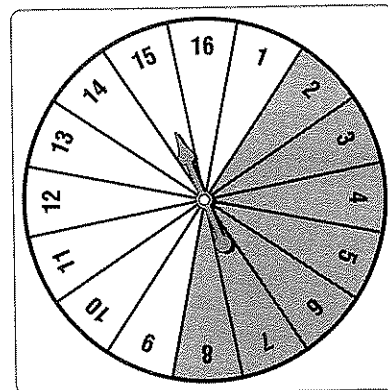
20. $P(\text{product is a square})$

6-9

Practice

Probability and Predictions

A spinner like the one shown is used in a game. Determine the probability of each outcome if the spinner is equally likely to land on each section. Express each probability as a fraction and as a percent.



1. $P(15)$
2. $P(\text{even})$
3. $P(\text{greater than } 10)$
4. $P(\text{perfect square})$
5. $P(1 \text{ or } 2)$
6. $P(\text{less than } 9)$
7. $P(\text{not shaded})$
8. $P(\text{shaded})$

There are 8 red marbles, 5 blue marbles, 11 green marbles, and 1 yellow marble in a bag. Suppose one marble is selected at random. Find the probability of each outcome. Express each probability as a fraction and as a percent.

9. $P(\text{red})$
10. $P(\text{blue})$
11. $P(\text{yellow})$
12. $P(\text{red or blue})$
13. $P(\text{black})$
14. $P(\text{red, blue, or green})$

Suppose two 1–6 number cubes are rolled. Find the probability of each outcome. Express each probability as a fraction and as a percent. (*Hint: Make a table to show the sample space as in Example 2.*) Round to the nearest tenth if necessary.

15. $P(1 \text{ or } 5)$
16. $P(\text{both odd})$
17. $P(\text{even product})$
18. $P(\text{sum more than } 8)$
19. $P(\text{both different})$
20. $P(\text{sum is a square})$
21. To the nearest tenth of a percent, what is the probability that today is a weekday?